



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 18, 2016

Alexander Pierce  
Regulatory Affairs Associate  
Certis USA  
9145 Guilford Road, Suite 175  
Colombia, MD 21046

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 – Adding optional text in Spanish, optional graphics and text  
Product Name: MEEN  
EPA Registration Number: 70051-6  
Application Date: 5 May 2016  
OPP Decision Number: 517659

Dear Mr. Pierce:

The U.S. Environmental Protection Agency (EPA) is in receipt of your application for notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Biopesticides and Pollution Prevention Division (BPPD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped “Notification” and will be placed in our records. You must submit one (1) copy of the final printed labeling with the modifications.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

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If you have any questions, please contact Cody Kendrick of my team by phone at (703) 347-0468 or via email at [kendrick.cody@epa.gov](mailto:kendrick.cody@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "Andrew C. Bryceland". The signature is written in a cursive style with a large initial 'A' and a long, sweeping tail.

Andrew Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

# Meen

Insect Growth Regulator

[OMRI Placeholder]

## For Organic Gardening

Kills or repels various insect pests on ornamentals, trees, lawns, shrubs, flowers, and vegetables in the yard, and garden, and in and around interiorscapes and homes.

Kills Sod Webworms, Chinch Bugs, and Other Listed Insects. Kills larval stages of insects.

Meen disrupts the molting ability of immature insects of many types, inhibits feeding, and acts to disrupt the reproductive capacity of many insect adults.

### Active Ingredient:

Azadirachtin.....	0.09%
Other Ingredients.....	99.91%
Total.....	100.00%

EPA Registration No: 70051-6

EPA Establishment No: 44616-MO-01

Keep Out of Reach of Children

Caution

See Side/Back Panel for Additional Precautionary Statements and First Aid

Net Contents:

Lot Number:

MANUFACTURED BY:  
CERTIS U.S.A. L.L.C.  
9145 GUILFORD RD. SUITE 175  
COLUMBIA, MD 21046

### PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

**Caution:** Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Harmful if inhaled. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

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#### **FIRST AID**

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If on skin, or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

Have product container or label with you when calling a poison control center or doctor, or going in for treatment.

#### **Environmental Hazards**

This product is hazardous to fish and aquatic invertebrates,

To protect the environment, do not allow pesticide to enter run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

#### **Physical or Chemical hazards:**

Flammable. Keep away from heat and open flame.

#### **Directions for Use**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

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General:

- Botanical Insecticide Concentrate
- Insecticide, Repellant, Insect Growth Regulator
- All-Purpose Insect Control
- All-Purpose Insecticide
- Broad Spectrum Insecticide
- Broad Spectrum Insect Control
- Insect Anti-feedant
- Multi-Purpose Insecticide
- Kills and/or repels insects/Japanese beetles
- Kills Larval stages of insects
- For Indoor and Outdoor Use
- Formulated for Interiorscape use

**General Information**

MEEN's effectiveness is based on several modes of action. It disrupts insects' delicate hormonal balance so they die before they molt to the next life stage. MEEN suppresses some insects' desire to feed and also repels many insects in areas that have been sprayed. These different modes of action result in broad spectrum control of the majority of insects that harm your yard and garden.

*[MEEN's effectiveness is based on three modes of action:*

- 1. Anti-feedant: MEEN suppresses the insect's desire to feed and, therefore, no damage is caused.*
- 2. Repellant: Insects simply stay away from areas sprayed with MEEN and, therefore, no damage is caused.*
- 3. Insect Growth Regulator: MEEN disrupts the insect's delicate hormonal balance so it dies before it molts to the next life stage.]*

MEEN kills or repels a broad assortment of insect pests. MEEN spares many beneficial insects such as honey bees and lady bugs that prey on undesirable insects. Without beneficial insects to control pest populations, plants are even more vulnerable to new infestations.

Neem-based products have been tested and used as effective insecticides in commercial greenhouses. The Neem seed has been the subject of extensive testing throughout the world [*since after WWII*]. Neem has been tested at major universities throughout the U.S. since 1982.

The active ingredient in MEEN is an extract from the seeds of the neem tree, a renewable resource. Parts of the neem tree have been used over the centuries for highly effective insecticidal and medicinal purposes. The neem tree is native to India, Africa, and several other tropical countries. Over the years, people have stored their food grains, in the home, free from pest infestation by adding whole or chopped neem seeds. The trees are also planted in backyards and common areas in order to repel insects.

Shake well before using.

Use spray solutions within 8 hours of mixing for maximum effectiveness. Do not store diluted spray solution for later use.

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Not for use in food handling areas.

Since MEEN interferes with insect growth function it is most effective when applied 2-3 times at 7-10 day intervals.

Application directly into the target pest will increase efficacy. Time applications for early to mid-morning or in the late afternoon.

Do not add other chemicals to MEEN solutions.

Do not apply to wilted, stressed, or newly transplanted materials prior to root development. Do not apply to known sensitive plant species without prior testing.

### **Known Sensitive Plants**

Do not apply MEEN to the following plant species due to potential plant damage:

Hibiscus flowers

### **The Following Section Contains Directions For Concentrate Products Use**

#### **(1) Foliar Application (Bedding & Potted Plants)**

For use on bedding plants, potted plants, potted and foliage plants, ornamentals, trees and shrubs, in and around homes to control the immature or larval forms of the following insect pests:

#### PESTS

Leafhoppers  
Leafminers  
Whiteflies  
Thrips  
Mealybugs  
Loopers  
Caterpillars  
Aphids  
Fruitflies  
Beet armyworms  
Mexican bean beetles

#### USE DIRECTIONS

Dilute MEEN to a concentration of 3 fl. oz. (6 tablespoons) of MEEN per gallon of water (1 part MEEN per gallon of water). Mix thoroughly. Apply with a hand sprayer as a fine spray to leaf surfaces to run-off. Be sure to coat undersides of leaves as this is where many insects hide. Avoid excessive application.

#### **(2) Foliar Application (Trees & Shrubs)**

For use on trees and shrubs on residential landscapes to control the immature larval stages of the following insect pests:

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PESTS

Leafhoppers  
Leafminers  
Gypsey moths  
Weevils  
Psyllids  
Webworms  
Hornworms  
Spruce budworms  
Pine sawflies  
Elm leaf beetle  
Bagworms  
Tent caterpillars  
Grasshoppers

USE DIRECTIONS

Dilute MEEN to a concentration of 3 fl. oz. (6 tablespoons) of MEEN per gallon of water (1 part MEEN to 40 parts water). Mix thoroughly. Apply with a hand sprayer as a fine to leaf surfaces to runoff. Be sure to coat undersides of leaves as this is where many insects hide. Avoid excessive application.

**(3) Lawn Application**

For home lawns to control the following insect pests:

PESTS

Mole crickets  
White grubs  
Sod webworms  
Fall armyworms  
Chinch bugs  
Hyperodes weevils  
Billbugs  
Crane flies

USE DIRECTIONS

Dilute 2 fl. oz. (4 tablespoons) of MEEN in 1 gallon of water. Apply at a rate of 5 gallons spray solution per 2000 square feet. Apply MEEN 2-3 times on a 7-10 day interval to insure effective control of surface and sub-surface feeding pests. Do not apply MEEN to newly seeded lawns. Best timing for initial white grub application will vary by region but is generally early to mid-summer and again in the fall. If in doubt, contact your local university research or extension specialist for periods when white grubs are feeding in your area.

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#### **(4) Yard Landscape MEEN Concentrate**

For use around the home to control the following insects:

##### PESTS

Aphids  
Caterpillars  
Gypsy moth larvae  
Immature tent beetles  
Webworms  
Bagworms  
Lace bugs  
Box elder bugs  
Leafhoppers  
Psyllids  
Sawfly larvae  
Woolly aphids

##### USE DIRECTIONS

Always use freshly mixed spray solution. Use soft water whenever possible. Use with caution on new tender foliage, and do not apply to plants in direct sunlight. When insects are first noticed, apply a mixture of 3 fl. oz. (6 tablespoons) of MEEN per gallon of water (1 part MEEN to 40 parts water). Repeat applications 2-3 times on a 7 day interval. When infestations are heavy, apply on a 3-4 day interval until populations are reduced.

#### **(5) House Plant Application**

For use on house plants to kill the following insect pests:

##### PESTS

Leafhoppers  
Leafminers  
Whiteflies  
Thrips  
Mealybugs  
Loopers  
Caterpillars  
Aphids  
Fruitflies  
Beet armyworms  
Mexican bean beetles  
Fungus gnats

##### USE DIRECTIONS

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Dilute MEEN to a concentration of 0.42 fl. oz. (2 ½ teaspoons) of MEEN per pint of water. Mix thoroughly. Adjust spray bottle nozzle to spray setting and apply MEEN to leaf surfaces until completely wet. Be sure to coat undersides of leaves especially those at the soil surface as this is where many insects hide. Avoid excessive application.

### **(6) Vegetable and Fruit Crop Application**

For use on vegetable and fruit crops to kill or repel the following insect pests:

#### PESTS

Armyworms	Tent caterpillars
Diamondback moths	Mexican bean beetles
Hornworms	Pinworms
Imported cabbageworms	Colorado potato beetles
Loopers	European corn borers
Melonworms	Cucumber beetle
Pickleworms	Leafminers
Tomato fruitworm	Vine borers
Corn earworms	Cutworms
Bollworms	Weevils
Budworms	Bean leaf beetles
Whiteflies	Leafrollers
Thrips	Grape leaf skeletonizers
Borers	Twig girdlers
Aphids	Codling moths
Squash bugs	

#### USE DIRECTIONS

Always use freshly mixed spray solution. Use soft water whenever possible. Use with caution on new tender foliage. When insects are first noticed, apply a mixture of 3 fl. oz. (6 tablespoons) of MEEN per gallon of water (1 part MEEN to 40 parts water). Repeat applications 2-3 times on a 7-day interval. When infestations are heavy, apply on a 3-4 day interval until populations are reduced.

#### CROPS

Broccoli	Mustard
Turnips	Peppers
Cabbage	Lentils
Tomatoes	Squash
Melons	Lettuce
Kale	Beans
	Corn
	Potatoes

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Master Label  
MEEN

Revision Date 2016-11-2016  
Revises: NOTIF 2010-01-06

Peanuts	Sweet potatoes
Asparagus	Cucumber
Garlic	Collards
Parsley	Beets
Radishes	Peas
Rutabaga	Eggplants
Anise	Ginger
Mint	Artichokes
Dill	Onions
Rosemary	Turnips
Sweet bay	Bok choy
Thyme	Collard greens
Almonds	Mustard greens
Pecans	Basil
Pistachios	Chives
Apples	Marjoram
Pumpkins	Sage
Peaches	Tarragon
Plums	Wintergreen
Figs	Cashews
Lemons	Macadamia nuts
Cauliflower	Walnuts
Celery	Cherries
Kohlrabi	Cantaloupes
Carrots	Pears
Spinach	Apricots
Turnip greens	Oranges
Brussels sprouts	Limes

### **The Following Section Contains Directions for Use of the product in a Hose-End Applicator**

#### **HOSE END APPLICATOR INSTRUCTIONS:**

1. Remove plastic wrap from carton and detach hose-end attachment.
2. Screw the longer end of the hose-end attachment onto hose.
3. Set valve switch to off position (at right angle to line of water flow).
4. Remove child resistant cap from product bottle and screw bottle top onto hose-end attachment until tight
5. Turn faucet on. Begin spraying by turning the valve switch located on top of the attachment clockwise until fully in line with water flow.
6. When spraying is complete, turn valve switch counter clockwise to stop product flow.
7. Turn off faucet.
8. Unscrew product bottle from hose-end attachment, recap bottle and if empty dispose of according to label directions. Unscrew hose-end attachment from hose.

#### **Alternate Hose End Applicator Instructions**

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1. Make sure knob is fully clockwise to OFF position. Shake well, then attach to hose.
2. Turn Product Control Button clockwise until the flat portion is flush with the lock tab, then push button all the way in. Avoid squeezing the bottle.
3. Turn water on at faucet, aim nozzle toward surface to be sprayed and turn knob counter-clockwise to begin spraying.
4. When finished, push Product Control Button to OFF position from opposite side. Return knob and faucet to OFF position . discharge water pressure by turning knob ON and OFF again. Turn Product Control Button counter-clockwise away from lock tab to prevent accidental discharge. Store out of reach of children.

**(7) Foliar Application (Bedding and Potted Plants):** for use on bedding plants, potted and foliage plants, ornamentals in and around homes to control the immature or larval forms of the following pests:

PESTS

Leafhoppers  
Leafminers  
Whiteflies  
Thrips  
Mealybugs  
Loopers  
Caterpillars  
Beet armyworms  
Aphids

USE DIRECTIONS

The 16 oz. hose-end applicator for bedding and potted plants will treat approximately 650 square feet of plant material 3 times. Repeat application 2-3 times on an interval of 7-10 days. Apply to leaf surfaces to run-off. Be sure to coat undersides of leaves as this is where many insects hide. Avoid excessive application. Do not apply to known sensitive plants without a prior small scale test application.

**(8) Foliar Application (Trees and Shrubs)**

For use on trees and shrubs on home landscapes to control the immature larval stages of the following insect pests:

PESTS

Leafminers  
Leafhoppers

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Master Label  
MEEN

Revision Date 2016-11-2016  
Revises: NOTIF 2010-01-06

Gypsey moths  
Weevils  
Psyllids  
Webworms  
Hornworms  
Spruce budworms  
Pine sawflies  
Elm leaf beetle  
Grasshoppers

#### USA DIRECTIONS

The 16 oz. hose end applicator for trees and shrubs will treat up to 5 ten foot trees. (*The 32 oz. hose-end applicator for trees and shrubs will treat up to 10 ten foot trees.*) repeat application 2-3 times at an interval of 7-10 days. Apply to leaf surfaces to run-off. Be sure to coat undersides of leaves as this is where many insects hide. Avoid excessive application.

**(9) Lawn Application:** For use on home lawns to control the immature larval stages of the following insect pests:

#### PESTS

Mole crickets  
White grubs  
Sod webworms  
Fall armyworms  
Chinch bugs  
Hyperodes weevil  
Billbugs

#### USE DIRECTIONS

The 16 oz. hose-end applicator for lawns will treat approximately 1,000-2,000 square feet. (*The 32 oz. hose-end applicator for lawns will treat approximately 2,000-4,000 square feet.*) Apply MEEN 2-3 times on a 7-10 day interval to insure effective control of surface and sub-surface feeding pests.

#### **Hose-end Sprayer Refill <sup>(a)</sup>**

1. Remove child resistant cap from product bottle and screw bottle top on to those-end attachment until tight.
2. Turn faucet on. Begin spraying by turning the valve switch located on top of the attachment clockwise until fully in line with water flow.
3. When spraying is complete, turn valve switch until counterclockwise to stop product flow.
4. Turn off faucet.

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5. Unscrew product bottle from hose-end attachment, recap bottle and if empty dispose of according to label directions. Unscrew hose-end attachment from hose.

(a) Will also contain appropriate application directions as per the forgoing.

### The Following Section Contains Directions For Use Of The Product As A Repellant

#### Repellency Against Japanese Beetles and Other Pests:

MEEN repels a variety of pests including armyworms, aphids, and Japanese Beetles. Dilute MEEN to a concentration of 3 fl. oz. (6 tablespoons) of MEEN per gallon of water (1part MEEN to 40 parts water). Mix thoroughly. Apply to plants with a hand sprayer, being sure to completely cover foliage and flowers. Apply just before pests emerge or at first sign of infestation. Repeat applications every 3-7 days or immediately after significant rainfall.

#### Storage and Disposal

Pesticide Storage: Keep in original container. Store in a cool dry place, away from direct sunlight, feed or foodstuffs. Keep container tightly sealed when not in use. Do not store below 50°F (10°C) or above 95°F (35°C).

Pesticide and Container Handling:

**If empty:** Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

**If partly filled:** call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

#### WARRANTY

Certis U.S.A. L.L.C. warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with the directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

(The following text may or may not appear, in whole or in part, on the final label:)

**[Kills Armyworms, Kills Diamondback Moths. Kills Hornworms. Kills Imported Cabbage Worms, Kills Loopers, Kills Melonworms, Kills Pickleworms, Kills Tomato Fruitworm, Kills Corn Earworms, Kills Bollworms, Kills Budworms, Kills Whiteflies, Kills Thrips, Kills Borers, Kills Aphids, Kills Squashbugs, Kills Tent Caterpillars, Kills Mexican Bean Beetles, Kills [Pinworms], Kills Colorado Potato Beetle, Kills European Corn Borer, Kills Cucumber Beetle, Kills Leafminers, Kills Vineborers, Kills Cutworms, Kills Weevils, Kills Bean leaf beetles, Kills Leafrollers, Kills Grape Leaf Skeletonizers, Kills Twig girdlers, Kills Codling moths, Kills Leaf hoppers, Kills**

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**Mealybugs, Kills Caterpillars, Kills Aphids, Kills Fruit flies, Kills Box Elder bugs, Kills Mole crickets]**

**[Images or photographs of the above pests may or may not accompany the above listing.]**



**[Pull here to open/press to reseal/Disparencia para abrir y encontrar información e instrucciones adicionales]**

**[Instrucciones en español al reverse/ Instructions in spanish are on the [back][reverse] [side] [panel][other][back].]**

**[Look for other Safer® Brand products at saferbrand.com]**

**[Companies may include company specific images and graphics]**



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